ANT/BAI/01

1970 I.

1970

RECTICA

0002

J.H.C. BAIN

O. BMR.

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Bearings are true.

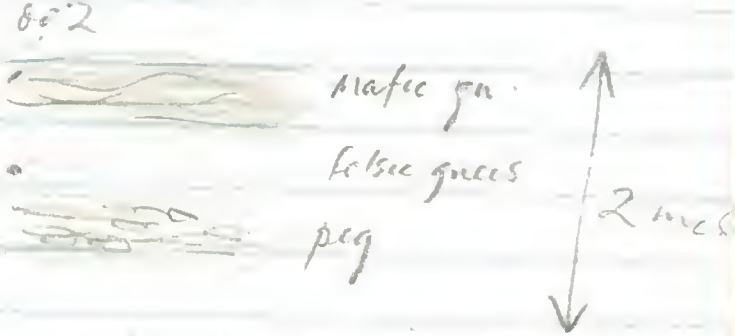
0001 {Sample}

26-1-70

[Bond Ridge?]

Banding / foliation ~ 70° S / 05° 2 [illegible]

Sample of the most felsic gneiss which also the commonest type on the rock outcrop. Some mafic bands of px-hbl. plag. gneiss and some pegmatoidal felsic gneiss. The bands are folded into quite tight folds. The pegmatoid contains large clots or clusters of biotite, + kfs qtz + plag.



0002 Sample mafic gneiss

Photos 27-29 [illegible]

[illegible] 30

Bond Ridge : - fwille S along ridge

0003 = C4?2.

Photos 31-32

Folds in felsic gn.

Some bands contain 20 30% gnt.

See Ian for addl notes

Base 27-1-70

Alt MI? 10 AM 5480 ft.

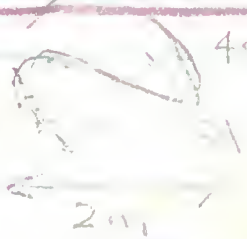
outer. MP of NE face. 5670 ft

Base Camp 4PM 5630.

Small outcrops on eastern side of Moore Pyramid.

0004 Migmatitic gn.

Strike of 142° Opposite Sq 43



Plunge approx 2-5° to N.

Ian has spec.

Mr Wishart. 0005 25.1.96

Walking up western spur to fresh bluff beak at about 150' above moraine. Is highly garnetiferous gneiss. Plag + Qz + Bi + Pk + Gnt. Garnets up to 2-3cm across.

2/3 way up spur crossed highly gnt iferous band trending about 150 Band is about 2-3m wide (Sample) 0005 of this band — may be meta basic dike as lack across regional strike

Some spec contain sillimanite?

Mr 0006

0006 on top of bluff (Sample)

Banding 80°S/120 (= 00411 dark band)

Gneiss — finely fine grained bi-pl. qtz toned gr. with large gnt porphyroblasts.

Bands of light & dark material are about 1–3cm & ½ – 4cm respectively. The dark bands are strongly stained with iron to blue & purplish colour. The whole rock

5

[illegible] strong [illegible] orangy red colour from high iron content.

gnt makes about 80% of some bands and a min of 20% in felsic bands. Predom mafic bands are sheared with thin felsic veins & lens.

In some areas large quantities of large gnt porphyroblasts obscure & almost obliterate the small scale banding & foliation within some of the larger bands.

Some bands appear somewhat sheared where streaks of gnt curve around gnts.

0007 Very pure [illegible] & Lc [illegible] than saddle. Thin [illegible] Banding [illegible] cpx. but large lepc felsic veins plunges 60° at 190°. See Thin Section: v. dark [illegible] very sheared. - flaky outcrop.

0008 - Moraine - east end of eastern spur N/E Wishart. (Sample) of whitish rock containing yellow, blue & green crystals from the moraine.

Alt Moore Pyr. Base Camp. 31-1-70.
4PM ~~5~~ 8800'.
Vicinity Carter Peak. ~ 20 mile W of MP.

0009 - Peak 1 S of Carter Peak
Alt. 6700 ft adj to ridge crest. Fine
outcrops of garnet-feldspar granite
gneiss. (med-to-coarse gr.)
Foliation 80S/070. due to
partial, discontin alignment of
biotite.
Some small smeared out inclusions
& streaks of biotite rich material
cut across foliation 090
Mineral [illegible]
Plag porphyroblasts [illegible]
Biotite small flakes — [illegible]
(Sample) ?ox.

0010 Sample pomph gnt. gneissic
granite. ? clean shistic.
Large 3-4cm yellowish feldsp some
fox. One 15cm inclusion appx
x ~2cm

to be: Sillimanite or fibrous kyanite
yellowish col. min — ? felsp? ; it
is surrounded by gnt(+px) then px(+gnt)
then: plag and mafics.
Some pegmatoidal qtz-felds - bi gneissic
grades into the rock — probably
only a narrow 30cm or less band
or vein.
Some vague suggestion of light-
style folding in gneiss.
Mafics tend to be a bit
patchy
Outcrop - typical granite - flaky
surface - exfoliation & rock
coarse felds/qtz sand & gravel
rounded boulders (flakes) and
flakey slabs.
Rock does not part easily along
foliation.
Photo 3: 12

0011 2nd peak S. of Contact Lk
½ mile W of 0010
Photo. 4 W.S. of porphyroblastic
gn. & pegs. bi gneiss (granite
layers) Large rounded felsp.
Dark bi gneiss
55/060 Foliation not so pronounced
as before but otherwise the
same rock type — as continuous
along ridge from 0010.
Many more felsic lighter colored
bands about 10 cm wide and
more common here. Sample 0011
Felsp. porphyros larger here,
than 0009 & 0010
0012 Sample Same loc.

Alt. 6780 4:20 PM

0013 Rock west of Lantern Pk.
Granitic gneiss as before
very weathered w near vert
foliation 080°. SAMPLE.

0014 Photo 5 rock face.
Zone of light coloured band

0015 on top of peak.
Coarse gr. brown coloured
porphyroblastic gneiss (granite)
very weathered. Appears
plutonic.

0016. down slope to S.
Light coloured (pinkish) felsic
band trend 075-080 about
10 metres wide (see photo 5).
Dk grey (gn) gneiss.
SAMPLE. AH 6750.
7.05 PM

Slope is covered with loose rock fragments
not attached to rock.

Unable to approach outcrop to measure foliation / gn due to inaccessible

0017 – 1st point East Rd west

Several types of basic out as outcrop consist entirely of felsic veins, mostly of qtz feldspar or banding band.

Rock type: SAMPLES

0017 – fine grained grey coloured qtz fels gnt px (Rare). Grades out.

0012 – essentially as for 0017 but as grain size increases dark minerals (bio?) become more apparent. Gnt (rare) px (rare) (bio?) seen in outcrop (blocks?) Also contains very light coloured bands 1-2cm wide consisting of qtz.

11

This gneissic appearance and parallelism like sample 2019 thick to coarse grained almost pegmatoid gneiss. 5% felsic + opaque 5% + large purply garnet. Has vague foliation of sample 2020 Very c.g. gneissic pegmatoid.

Sample a foliation about 120° could not locate. (NOT USED)

? mineralisation opaque?

0021 N NE of Carter Peak
Located in centre saddle
Rock types very similar to
last locality. 0017-20.
Banding variable (~70° SW / 20°-110°
Small plunge 20°N/110.

X

specimen

X = spec 0021
map qtz-feld. gn (+ gnt)

0022 Sample gneiss nearby

0023 Sample gn. shows light
leucocratic felsic (pegmatoid) layers
end of NTK.

0024 near 0023 – Mafic band

Many small folds – like
0023 many tight.
Shear zones – folded with peg.
of 0021-22

West end very similar to E. ridge with Wishart
gnt. veins 1mm - 1cm.
Showed interesting appearance
Dip 70°S/110 Strong parting
surface.

Some xenoliths Strike same
as above

GROHN MASSIF B

0025 - NW end Mt Bakker highest point
SAMPLE Gneiss as before
Strong foliation 70S/110.

Gnt. qtz felds pm gn. coarse to med grained gn. with large gnt porphyroblasts
Very weathered here

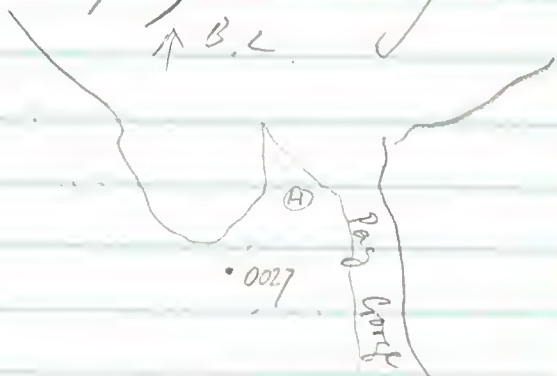
0026 Ellyard Ridge high pt.

SAMPLE Gnt. gb felsic gneiss
fine to med grain
porphyroblastic garnets
foliation 80°S/090°
Thinly banded. V. Similar
Baffler & Carter outcrops.

Alt 1500' Pyramid Camp 5000

0027. Beares Lake 1-2-70

West side of entrance to Pagodroma Gorge. Small low spit - walking N. Alt - 120 ft.



0027 SAMPLE

Platy, flaky dirty micaceous sandst. Ripple marks, minute low angle cross beds. Sst appears calcareous & is purplish brown to grey in colour. Parts easily // bedding giving v. flaky outcrop. Under- and overlain by very weathered coal or coaly beds.

Contains quite a bit of iron in small particles - may be just stain from detrital biotite.

SAMPLE

0028 Mount Dome Gneiss Stratigraph

← above 0027

Up to here interbedded coal & reddish micaceous sst cross bedded on small scale (0027)

Here 2 meter cliff forming bed of cross bedded coarse buff colored arkose overlies coal.

Cosets dip up 25° NE / 125

They are graded from coarse at base to fine sst on top over dist of about 5–15 cm

Max grain size about 5 mm.

Cavernous weathering

0029 SAMPLE Same bed a few inches away

Gr felds some mica iron stained grains

~ Photos looking east. Nos 12-13

Rick

0030 West Side Beaver L

Coarse gr. buff coloured arkose
V. similar to 0029.
Qtz-fels. lithic frag. Some Fe stain
? cross bedding 15°N/045 in
fairly consistent dirn. 30 sq ft
and 6" thickness. 10°N/030

On beaver L strata dip 0°E/140
They are interbedded coal and
arkosic sandstone.
All coal & coal beds visible this
They are only 30 cm or less in
thickness
10

0031 — Northernmost of 4 small
Sandstone bluffs. 7-8 metres high
Massive SSt in beds 1-2 metres
thick.
Coarse arkosic SSt cross bedded
in places
Top metre of SO of v. kaolinitic

ankerite, used to give rock
orange amounts of iron stain
cement. Clasts consist of
grains of fine sand size quartz
and rock out of red brown
color due to stain the cement
the beige colored sandstone
clasts vary from rock to rock
(flattened to size of local rock)
and pebbles to limonite
Some clasts, rounded or subrounded
- like pieces of beach glass
no shells found. Appear
similar to SST rock to the S.
but here appear to resemble
the flagstone beach sandstone.
esp the pieces from concretions.
high felspar content.

SAMPLES: 0031 White outcrop ½ way
up cliff - banana concretion type
0032 Fe rich SST about 1 inch thick
near top of cliff

0033 SSt at top of cliff
containing limonite grain
& iron rich nodules.
0034 Fe SSt
0035 Fe/mica SSt.

& Top of cliffs 5-10 E / 170°.

0036 Coarse bed in fossils SAMPLE
Thick calcite cemented w
coarse to fine Fe SSt
0037 V. coarse Fe arkose.

0038 Outcrops of coal as small ridges in entrance to valley East of Grange V. 5-10 E/160 approx.
At least 8 metres of coal although this is interbedded with brown coaly shale and dolerite & fine micaceous sandstone
There is about 4 metres of coal with about 30 cm of l. grey micaceous shale near the middle.

Photo 2[+3] col. 2.
looking N. - height of top of 2nd seam from top about 2nd from top is about 2-3 metres.
Photo 4
Much plant material in the shale micaceous & coal but not good for collecting

A band about ½ metres from top of island ... about 50% Sulphur & fused looking coal. Its about 15 cm thick
There is much yellowish sulphur stain on all the coal around here
(0039 Sample of above)

0040 Well indurated fine gr dusky grn sst from below coal layer

0041 Fe. St. coarse arkose overlying coal

0042 Light col - like the arkose together with overlying 041

0041 Contains many Fe nodules

Nth side, Emery Loz.
0043

Photo 5. Col. 2. Looking NW
SAMPLE coarse gr. Charnockite
Diaphyroblastic

Grid ref: Col. NH 10000 D
4658, 21765.

Photo 7 col 2. - close up charnockite

Wharton Massif 2-2-70
ANT130/R37/7132
Walking on bearing about 340° from Camp Site AIRPHOTO (Fig. M.
out along western most north trending ridge.

0044 100 metres S. of first saddle.

SAMPLE massive, light coloured poorly foliated qtz-fels.-bi ?px gneiss - acid granulite.
Pinkish kfelsp and Qz make up 90% rock with mafic minerals forming patches or spots of dimensions 10 mm x 5 x 2 mm. These clots of mafic give the gneiss a spotted appearance & impart a foliation (trending 050°). The weathered surface is stained a light brown with darker brown specks where the mafic patches occur.
Some pink veins contain less mafics and are not clotted - their power

foliation is due to the podding of the qtz.
Hereafter called spotted and granulite (massive).

5045 - First mound a Sadie 10 metres iron only. SAMPLE
Very similar rock type but less typically spotted - more sheared. Foliat° 85 N°/085°
due to form of qtz pods & streaks of mafics, slightly more coarse etc. Massive blocky outcrops, jointing giving large cube shape blocks
No noticeable lineation
At edge of outcrop a small area containing many sheets and small elongated lens of mafic green - Opx + Cpx + Plag with granular texture - Basic granulite
Some suggestion of light Mg type dike almost // the foliation.

Photos 14 – 20

14 Looking N (320°) along ridge

15 Double peak U shaped notch, showing banding poorly foliated and granular forming peaks and interbanded and [illegible] granulite in area below notch. The latter rocks have been tightly folded and the 2 peaks may represent the limbs of an [illegible]. The notch may have resulted from the more easily weathered major gneiss (see 16) (320°)

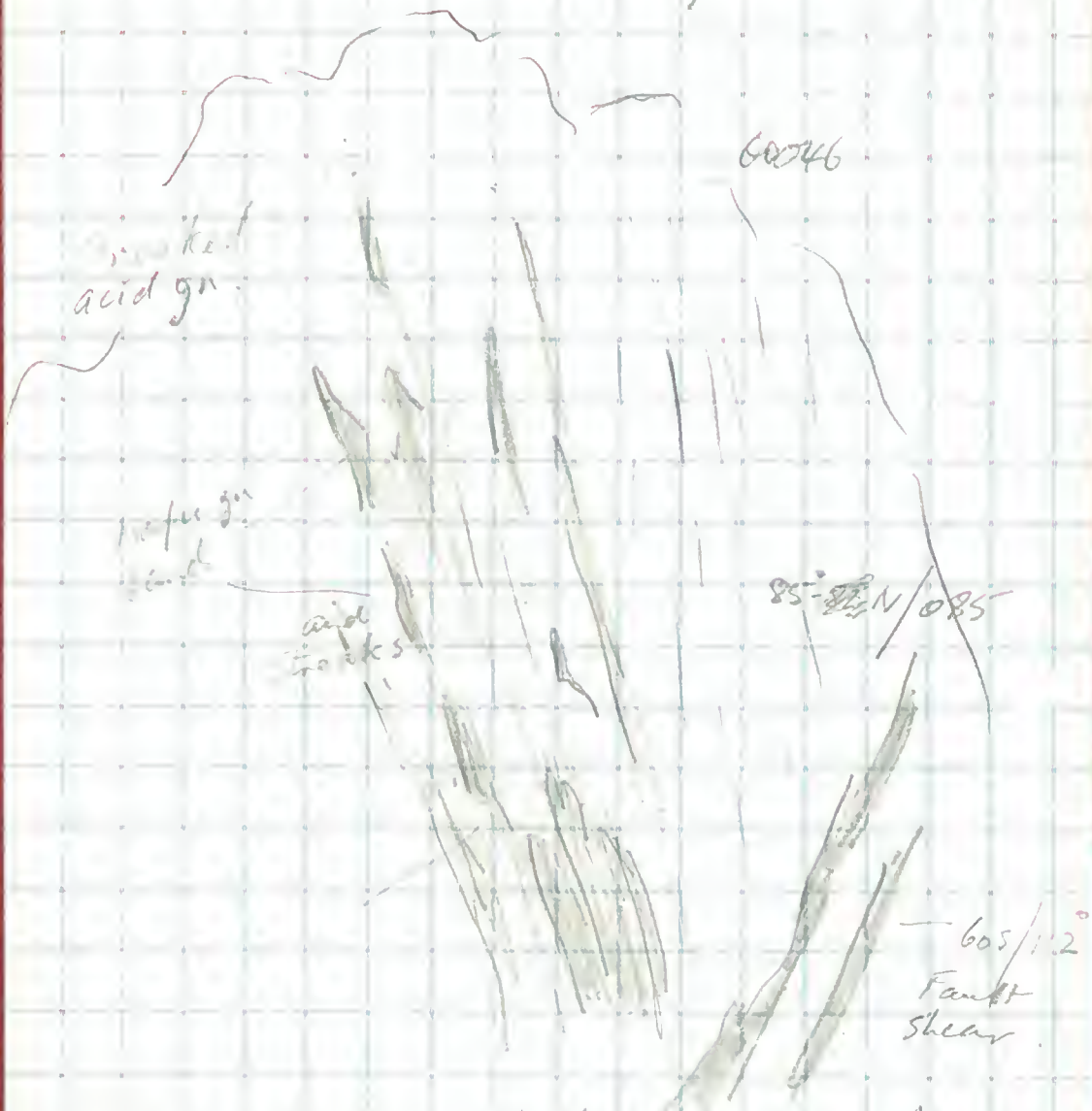
16 Single loc 005

17-18 Shows sheared major gneiss – mid gneiss contact about 5–10 metres south of 005

19 As above – smaller view. Both views to the east.

20 How to SW of major gneiss showing major banding / foliation.

Cross section looking west



Some streaky v. dark v fine green bands cutting the rest of granitic rocks. They appear to be shear zones.

0046 Heavily [illegible]

1 metre wide band of mafic gneiss — granulite facies. Southern contact is sharp and is covered with snow & rock debris but other parts of outcrop indicate to have granulite grades into acid gneiss with leucosome and patches.

It is cut by a shear zone, trend 60°S/12° (see photos 15-18). Most pronounced shear results in v hard flinty black rock called hornfels SAMPLE 0046.

Basic granulite sample 0047 from [illegible] N of shear. Shear bounding mafic [illegible] N side of fault is basic granulite [illegible] 70°N/060-070° (Ave 20)

Loc 5 50 metres N of last point

Layered mafic fm (fine and gneiss (some massive & pitted banded - some poorly foliated) containing up to 60% mafic inclusions

Photos 20-25 - illustrate the rock types

Inclusions aligned 060° // banding & foliation

Inclusions elongate generally 2-15 cm wide, up to a metre or two in length. Many small ones 5x10 cm.

Inclusions consist of basic granulite.

Rock varies from and granulite massive containing basic granulite inclusions to a mixed rock of intermediate composition but variable with varying amounts of mafic material of varying grain size

Some more small shear zones similar. Note continue but less than small faults with less displacement. Trend much as before but varying between 112 – 150°

Some small areas of pegmatitic gneiss of wrong shape cutting gneiss only a few cms wide.

Most of the inclusions have clear sharp boundaries but some appear diffuse. The amount of mafic material in the host and gneiss increases near concentrations of larger inclusions.

Zone containing numerous mafic inclusions ranging up to several hundred metres, width 1km and [illegible]

Samples:

0048 Acid gneiss host-

0049 More mafic acid gneiss
with some shear bands
of mafic material

0050 Banded interlayered gneiss with
bands of mafic rock material
and bands of felsic material

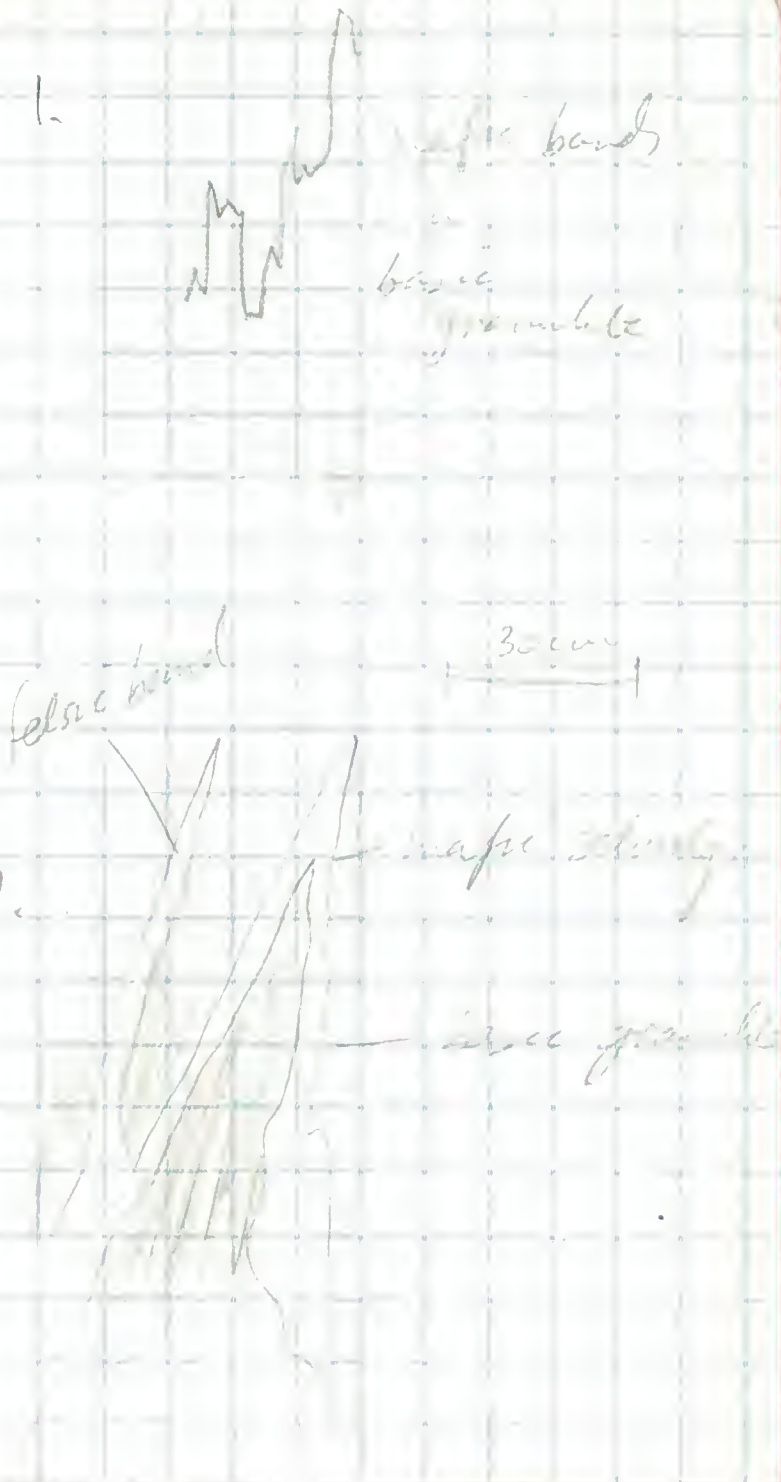
0051 Mafic blocky interlayered
gneiss

0052 Basic granulite (mafic
inclusion)

0053 [illegible]
a Some [illegible]

Calcareous [illegible] foliated
gneiss (Px + Qz)
dark coloured [illegible] banding
[illegible] gneiss
Limestone developed [illegible] basal
plane due [illegible] gneiss
is 135° Folds plunge steeply
(vertical) [illegible] S.E.
Similar light folds can be
seen in the host gneiss but
of smaller scale. They are
[illegible] by small lighter
coloured bands about 2cm in
width
Photos 0044 26-28 refer. Photo

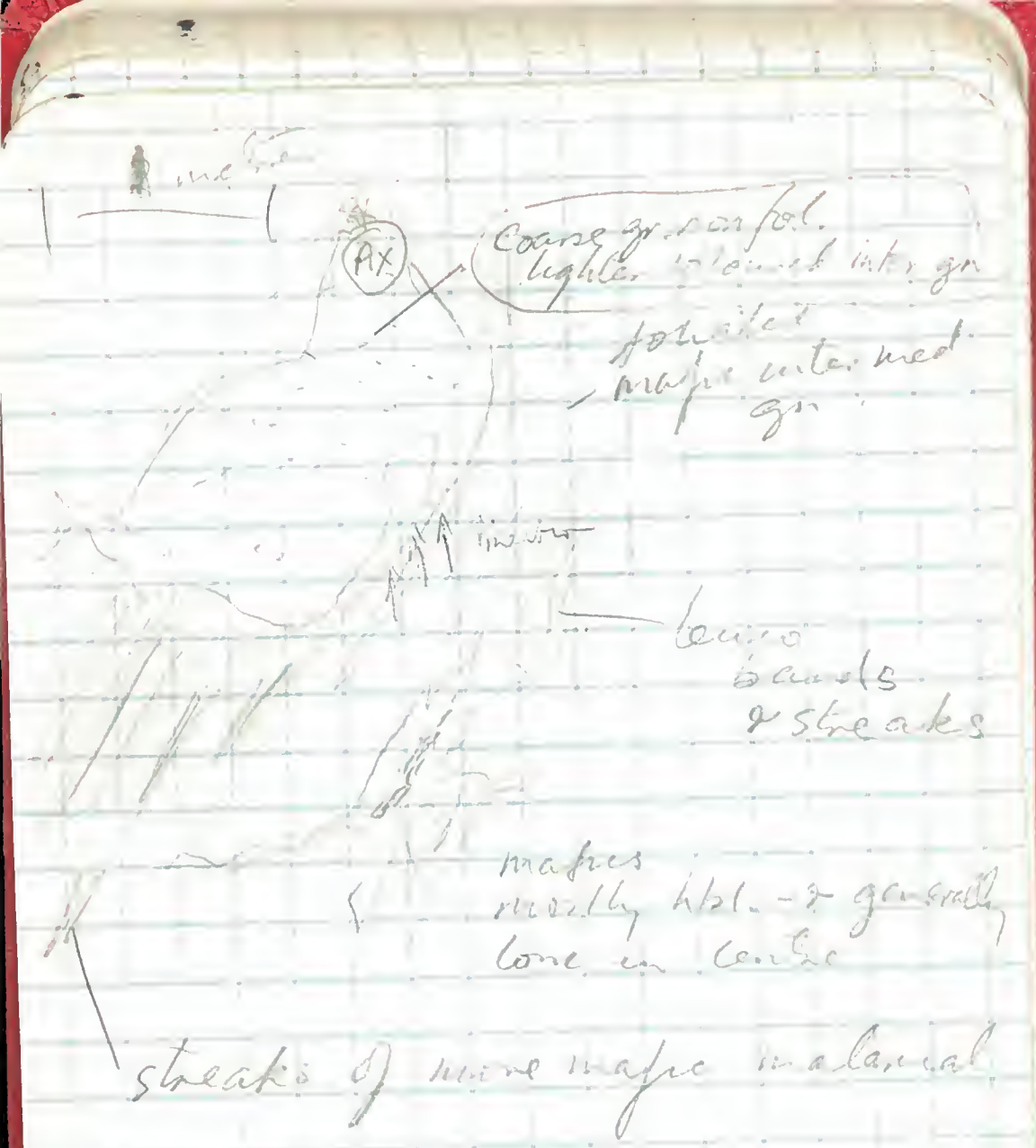
Single bed north 0053
of Lewis Head 0054



0055 Small [illegible]
from saddle. Includes
[illegible]
[illegible]
[illegible]
Local [illegible]
Colour green - olive to fresh surface
- dk dull grey.
Contains some small [illegible]
[illegible] Tephra pebbles
also black pyroxene phenos
(1-2 cm) & light [illegible]
Outcrop about 50 metres, locally
assuming Strike about 185° 100
Some Skeat zones as noted
earlier - clay - v hard & brittle
fine grain - magnetic mylonite
trend 185 - 200

0056
small patch v. hard black
coarse gp. [illegible] 0055
SIMILAR. Some weathered surfaces
red brown. Outcrop [illegible]

Photo 29 R2 BW


Coarse gr. con/sol.
lighter colored inter. gr
dominant
mafic inter. med
gr
Layers
bands
& streaks
mafics
mostly hbl. - & gr. small
lone in center
streaks of more mafic material

0055 grades to charn... rather major coloured gneiss ... to ... gneiss
0055 ± 51
but gradation ... with ... gneiss
feldsp + light ... contact

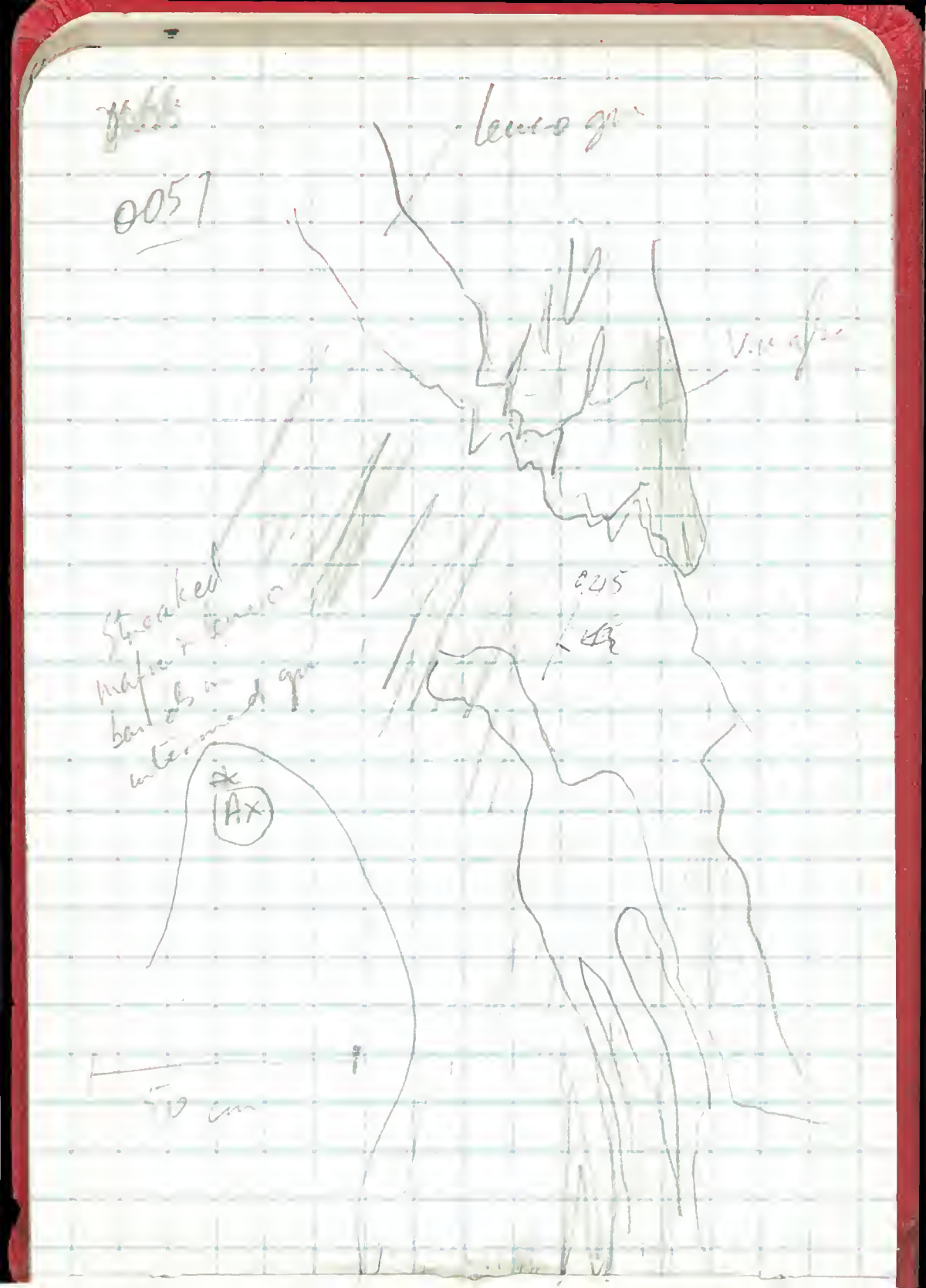
6.

3-2-70

Continuing on eastwards.

0057 First high point

dark interbed to major gneiss
20-35% majors well foliated
50-70 / 025-035
Lineation 40° N / 015
(contains garnet px qtz felds
+ hbl + bi)
Also ... inequig. ... elongated
small felsic bands, pinch
(see above fig)


0051
Stacked
AX

0058 High pt marked on photos
ANT 130 R37 7132 L (John Mascoff)
2nd rounded hill on ridge before
sharp peak with ridge going N

To base thru granulites varying
from acid to basic varieties of
an intermediate mafic granulite norm.
ie a/Most common type : 50-60%
Dark coloured px-bearing qtz-fels
gneiss - poorly to well foliated.
generally grading into sugary less
hard more mafic type.

b/ Next most common types together 25 40%
Sugary base granulite
px+hbl+plag
Massive leuco gneiss — qtz-fels gn.
with varying amounts of mafics
Generally qtz is rodded giving a
poor foliation. Thin is reinforced
in parts by rough alignment
of mafic patches when present
(of massive spotted acid granulite)

Foliation / Banding generally
between 020° - 045°
in N some 360° — 055°
near vent & 45°N

The grain size varies from medium to coarse and there are some almost pegmatoid phases.

c/ Other types:

Silt blows (grey to white)
Black hard pyroxenite
Blush grey 92 feb 461 peg.

The augite base granulite makes up to 30% of the rock overall with large interbedded

Relationship between rock types is somewhat obscure but does appear to illustrate the general picture.

Folding, complexity of rock types and poor outcrops make it impossible to follow changes over any reasonable distance

0059 High pk before peak.

Mostly 0059 with bands of 0060 ie Reddish Qz-feld-pr gneiss
Coarse gr with some alignment of gr + rods. and finer grained Qz-feld-pr gr with foliation like that of Nafjell
Foliation vert / 245
Moderate dip E

0060 See above

0061 Pinkish Qz-feld-pr gneiss - acid granulite - w. foliation.
from ridge W of 0060 (ie returning to camp)
ANT130/37/7132

0062 Location as for 0044

SAMPLE PIE dot PHOTO 16
Roll 2 Col.

Photos 8-16 on Saddle above Camp
Col R 2.

0062 light buff sl. acid
granulite [illegible]
AGE DET

0063 20 metres N of 0062
Slightly coarse grained variety
of qtz-felds-px granulite
with foliation due px.
Spotted and granulitic.
Photo 17. Col.
AGE DET

0064 [illegible] north of last st.
Mafic gn. - as above
granulite band.
[illegible] veined
AGE DET Photo 18. Col.
[illegible] small rotted felsic band.

0065 3 metres further N.
Photo 19 Col.
Mafic intermed gran.
Px-qtz-felds gn
AGE DET

37

0066. ANT 30/57/8129
Porphyroblastic ... metamorphic granitic gneiss - foliated 065°
SAMPLE

0067 Pelitic acid band 2-3 m wide g/z - pale - grn
SAMPLE

0068 Basic granulite band.
SAMPLE

N/H Ealden

0069 N^th E^y ridge [illegible]
foliation & banding V. steep
to N/045-070
SAMPLE Acid px bearing
Qtz-fel. gr. f. gr.
Most common type together
with

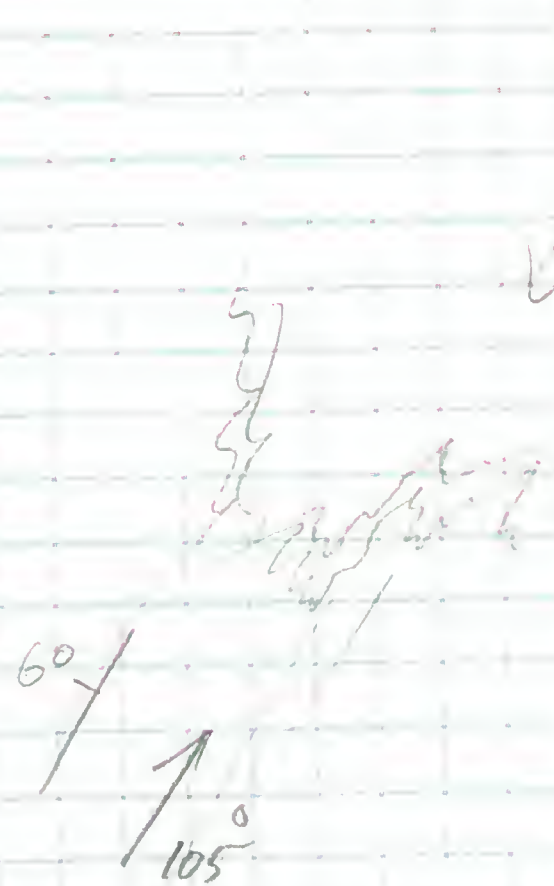
0070 V. similar gr. fel gn
SAMPLE f. gr - granular text-

These rocks appear meta
rocks - [illegible] samples

0071 V. f. gr foliated bi-px?
bearing qtz-fel gneiss - micro
banded ? Contact
SAMPLE

0072 - more mafic than other
granular text slightly foliated
Contains bi - qtz-fel gn

SAMPLE


60°
105°

0073 Sheared pyroxenite
SAMPLE band absent in this block

0074 Coarse granulite
SAMPLE c plag + mafics granular gn
with white mineral coating

Mt Lebrue [illegible]
0075 Photos 34-35 SW
[illegible] well foliated
showing tight folding
Coarse garnet porphyroblasts
Sample

0076 — in out gn + less foliated
SAMPLE

0077 — Structure Sample Zone
showing folds

0078 Spotted acid granulite
px. bearing [illegible]
eg. SAMPLE

Photos: Roll 2 B&W.
S. end Martin Mesa.
Mt Lackie.
end roll

0079 f.g gl₂ fels gr + px + bi?
SMOKE
the major acid voles
are of about equal
proportions and are
tightly folded

0080 - 0081
35 SW/150
Cliff.
fg. sil gl₂ - fels bi gr
+ milky gl₂ blebs + stringers

Mono zone to ~ granulite
pelitic xenolith showing metamorphic
& mig / Migmatitic
& Complex folding.

Rather sheared dyke with
elongate inclusions blast fabric

41

Mt Rayner 6-2-70

Camp - small gully - Moraine
Debris - NH Mt Gotley & Lewis.
AH 5100ft 9300ft

0081 ANT 92/R4f/V8101; V ~~8100~~

S. side prom. Spur
Highly contorted mixture of greenish bi-px-hbl-felsic gneiss (green mafic gn) and purplish brown qtz-felsic gn (c.g.) veny and bi small 10-15 cm lens of qtz. The acid gn contains patches of coarser almost pegmatoid gn. containing bi (px/or hbl?)
In places the gn contains streaks & clusters of mafic minerals giving it a spotted appearance or a foliation.

The green mafic gn varies from fine to med gr and contains many irreg patches of coarse crystals, segregations of one or two minerals,

a layered, schistose gneiss, and felsic veins & lenses.
In some spec of makeup at least 20%
Spec 0081 is med gr mafic gneiss.
Photos 20-21 Col. R2 shows this in a fair sp. a small folded felsic pegmatite band
0082 - felsic gneiss SAMPLE and - gr. felsic gn.

To the S of here, or rather from the corner of the moraine area the rocks appear more ordered with more consistent strike of bands & better defined bands and light grey colour.
Rock is mostly reddish coloured and grey with much greenish black mafic gneiss & interbanded minor felsic veins & lenses

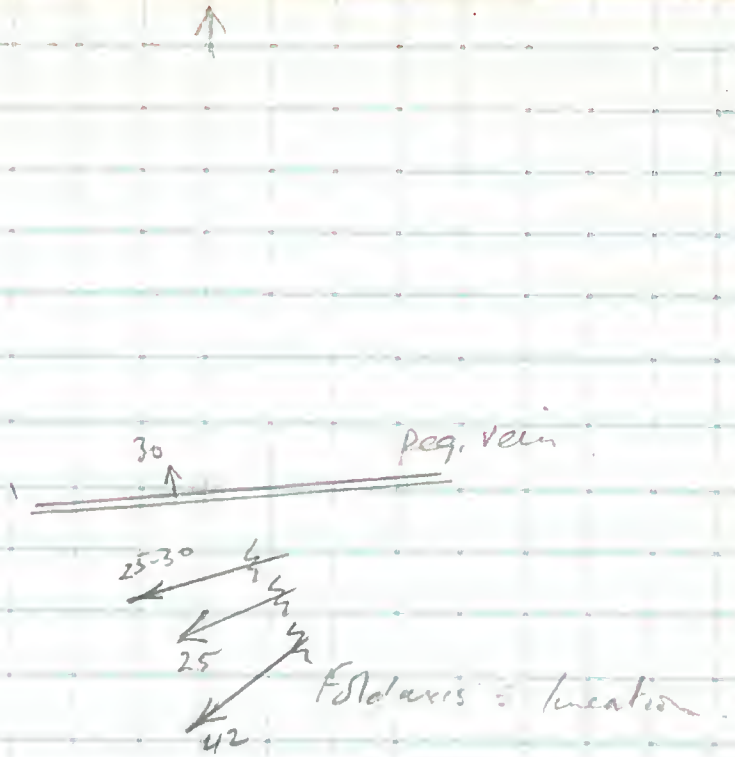
Orientations should point
In fact a table summary
of best results.

The folder for contains
binary shapefile inclusions of
blocks, folded, by the surface
for which should be table
contain many versions of the
folder for

Next year N.

2085 ... many petitions not used
to undertake [illegible] in bi
[illegible] SAMPLE
Alignment [illegible]
[illegible]
in places is really more [illegible]
but the [illegible]
Fold axis typ 42 Su/050 typ
2084 - as above but less [illegible]
[illegible]
Some low [illegible]

47


30
Peg. vein
25-30
25
42
F. Solaris = lineation

New loc. [illegible] on spur as needed

1085 [illegible]

[illegible] safe ga — [illegible]

0887 Not [illegible]

0895 Regrafil [illegible] cream
16 light or buff [illegible]
9:2 - [illegible]
[illegible] 6+12"
cut banding [illegible]
30°N/E

[illegible] 25W/05

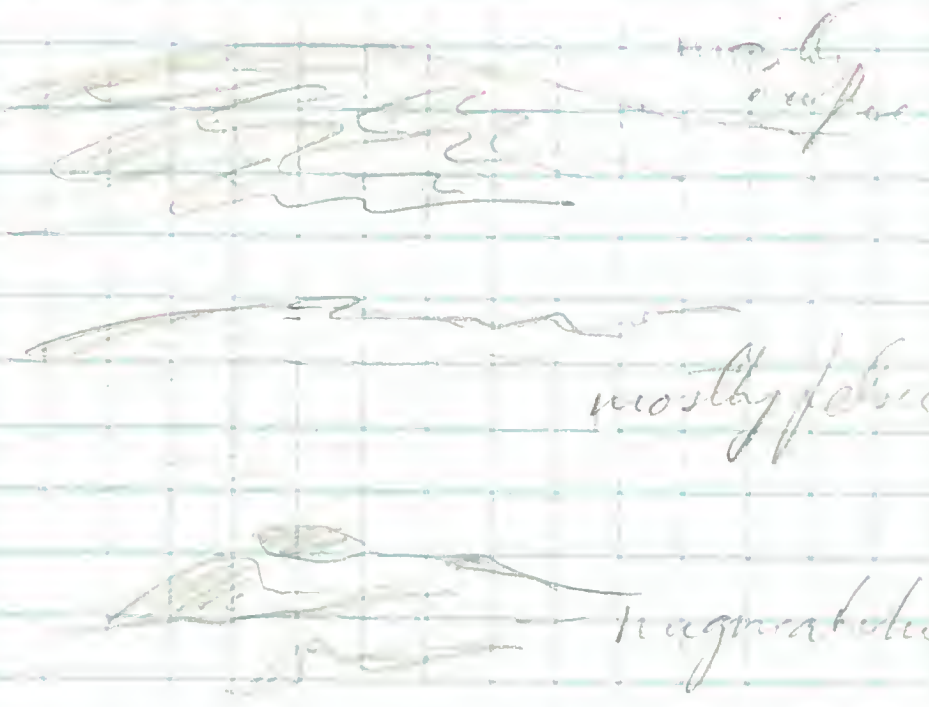


Photo 3 Bot 3

SAMPLE

0089 Standard grind for
grain fabric grain

Contains many kinds of Standard
grain in the fabric
Used as a
Can be cut and ground
mixed proportions
In place of regular
in specified

1c Spec 9090 Structure Sample

Lineal — in fold over
for pressed. Loc
2550/265

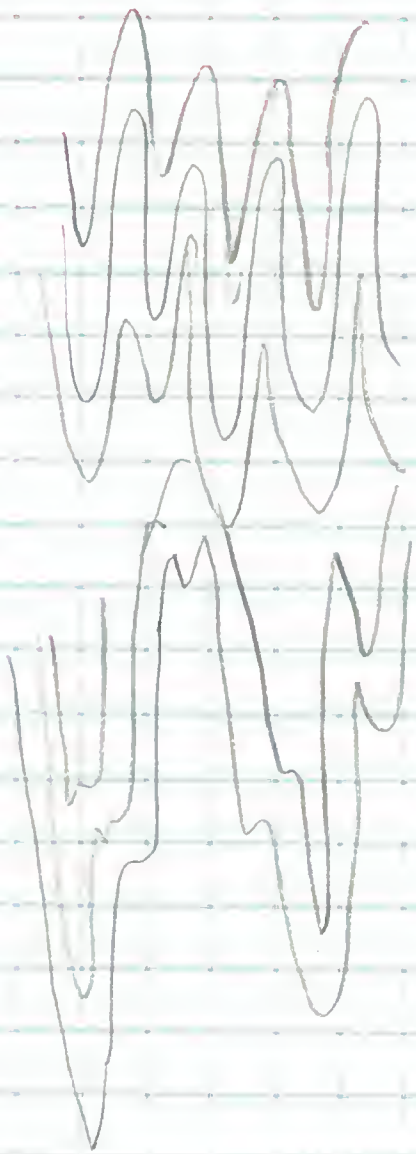
Cut by disk 8 samples
per disk 120 samples made

0091 N. end. Beasley,

[illegible]

Dating [illegible]

0095



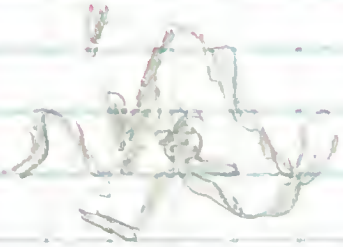
SAMPLES

SAMPLE.

CG95 Small saddle — wind funnel at top of ones slope
Rocks as noted at previous loc. but those in the saddle and to N. S contain up to 10% garnet as 2-5mm porphyroblasts and are very tightly folded into ~~N~~ angle / similar fold, (see opp page - fig)
Fold axes 120-10 40/082

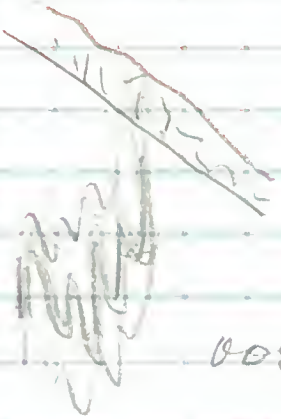
NO SAMPLE

1



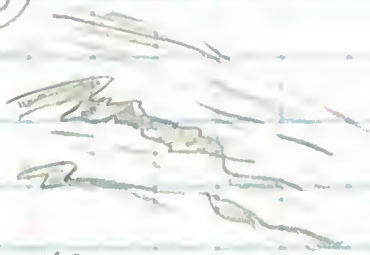
0082

2



0085

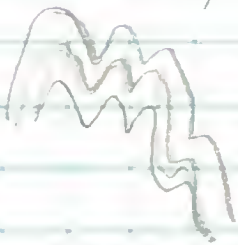
3



0089-90

4

0096



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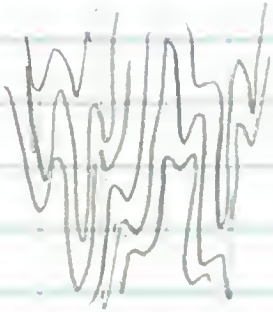


0095

6

0092

0096 Down slope to E side of shore bank.
Again the brown stained weathered surface of highly folded rocks. Shape unchanged — finely banded or laminated but not obvious large light & dark bands as at 0092.
Folds tight but general NW parallel sided — more open.
Also more mixed — not obvious what the direction of the banding or foliation is.
Foldaxis/ shll basalt 35°W/085.

0097 Hill foot of slope, ie the second spur from the N on the East side.
Very similar to 0096 but even less homogeneous.
Tending more to 81-85

Little Big Horn on the
Tell the historical story
That Sharky likes best
Exhibit Number

Vertical
Panorama

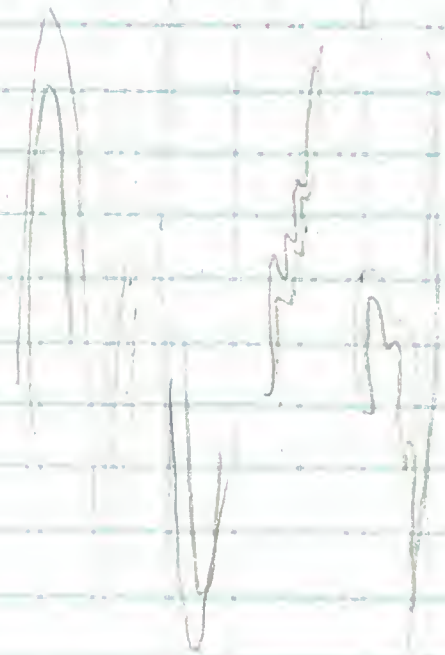
Color Photo 31-3
Lighted diorama hand-painted prints

Southern zone of Sandia: 7.5 to
8 km around west to east
between ice cores 1 & 5 cores
0098 Banded [illegible]
sanding: 75-80°N / 120°
Sample grape band
0099 Sample yellow band
yellow [illegible]
These two rock types faulty
intimately mixed [illegible] the
grape band is yellow
and vice versa. The yellow band,
forms 10-60% grape band
40-50% [illegible]
[illegible] magic [illegible] [illegible]
segregation [illegible] [illegible]
parallel to banding of
coarse gx qtz-felsic gneiss
[illegible] [illegible] large [illegible]
felsic gx porphyro with picrite
moulded around [illegible] against
porphyros. [illegible] little di
[illegible] mimic gx
[illegible]

0102 - [illegible]

0103 [illegible]

0104 [illegible]



Style / Fold Stamp // Lasting

Chert stringers - recrystallized
folded w/ bands

Bedding Vert N-S / 025
Folds axis dipping / about 5°
E

0105 - Well bedded chert
- nearest to Bluecc
Photos [illegible]

NO SAMPLE

Folds axes 5°E/070

Bedding 070° vert.

Tight folds [illegible]
[illegible] bc
Cut by N-S pinkish green
Fine grain green cut by bc
wavy veinlets

0106 Ridge of greenish
chert contains px-hbl-plag
biotite and gnt in the basal
mafic tuff. - No clear
bands. But many small
discontinuous folded features;

The coarser grained part contains greater % of pegs

This rock ~~contains~~ is cut by a 30 cm pegmatite dyke

0107 SAMPLE Mixed coarse & fine grained white/cream gr-feld + biotite & grt.

Grt occurs as fine grains throughout & also as larger crystals up to 1 cm

e.g. generally concentrated in the [10°N//065]

0108 200 cm west SAMPLE

Grt-gt-feld-bi-gr tightly foliated & banded. Cut by v. coarse white & pink feld-bi-grt peg. (see earlier loc for description) Crystals up to 2 cm across & blood red.

This peg is cut by the accompanying peg dyke (107) [Leading 85°N/065]

Photo 10 (35/R2

0109 Many similar rock types
to previous loc. Massive
outcrop — prominent bluffy knobs.
Tight folding in the gnt. bi-gt. fab
No samples

0110 Changing to more mafic
areas - complexly folded!
irregular folds and networks
of mafic & felsic dykes. From
here to 0081 very much as at
0081. No obvious banding.

Wendy McGrath 7-2-7

West side:

Starting from shallowest point of land scour & working N

0111 Very similar to outcrop at
(p.42) 0081. A large irreg shaped body of v. mafic gneiss - contains, & porphyroblasts of bi & plag in varying amounts

This is the green v. mafic gneiss of Boucher.

Together with felsic gneiss with thin bands & stringers of mafic minerals. To the north the pattern of folding & banding is better defined & more pronounced with Bandin 805/065 and fold axes shallowly (±10°) to E.

A little further on fold axes & banding (80°N/085) folds 5°E/085

There is little [illegible] with clearly defined light and dark bands.

Photo 9-10 - Migmatite gn + dyke
Small hammer scale

11 as above in arc scale

12 - Just around corner to S.
Migm. gn. Bull = scale.
Cold Canyon

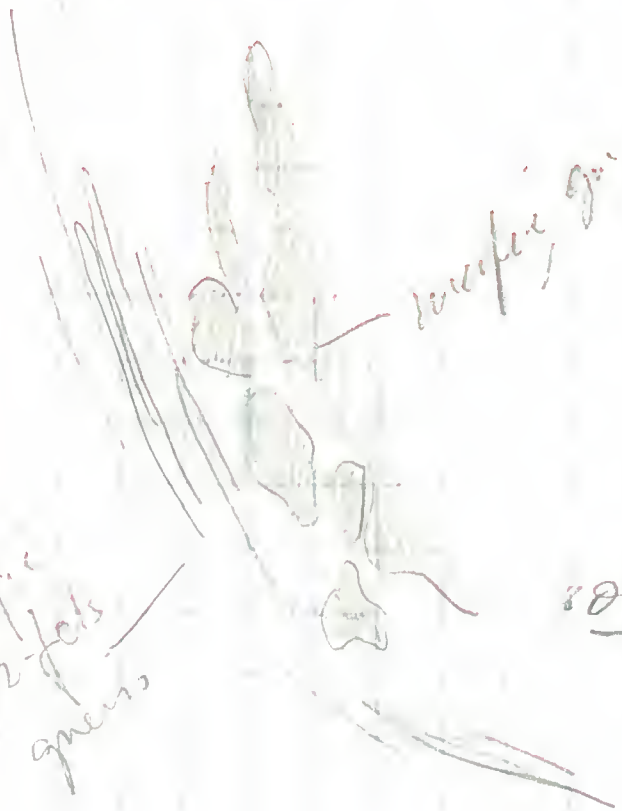
0112 ON pt. in wood scour.

Basically felsic gneiss with mafic (bi-hbl-pl) bands & streaks lightly folded into simple and tight/isoclinal styles & similar folds. Large felspar porphyroblasts are developed in the felsic bands esp. the coarser ones and also in dykes e.g. pegmatite qz-feld-gn.

Some mafic bands contain grt & there are some bands of grt+bi exclusively. Small garnets are present in the felsic gneiss.

The bedrock is cut by a pegmatite dyke dipping 10-15° to 160 N. This dyke (Photos 9-10-11 BW) is about 45 cm wide with fine grain top & bottom & coarse bi in central part. Right along centre is 5 cm wide shear zone of fine gr. mafics & felsic. Pinkish colour [illegible]

0112 Sample straight from dyke typical.


temple
maple
42-feds
quer.
8011 or 015-118

6a 0113

Ent. pt. of [illegible] slope

Banded foliated migmatite grey
qtz-feld-bi-gnt (px)
with small [illegible] pink
SAMPLE 113
and irregular [illegible]
Bedding 80°N/088
Fold axis 5°W/321

0115 Bedding pl. ≡ 0111

Samples 0115 - 116 - 115
the ultramafic grades
green coloured
No contact felsic rock

0117 as of the host gneiss - Bi-rich
qtz-plag gn

0118 See above - ie
ultramafic gn

R 2 . Col. 8, 16, 17, 22, 27, 29.
R. 1 ?

Pls. return

Bur. Min.

Box 378

CANBERRA.